



HI Certified

CR032

Principle And Interpretation

HI Certified is manufactured under controlled conditions to obtain low endotoxin content in final product. It is often used as an added enrichment in culture media. It can also be used in media for propagation of cell line. It is equivalent to Certified Heart Infusion.

Quality Control

Appearance

Light yellow to brownish yellow homogenous free flowing powder, having characteristic odour but not putrescent.

Solubility

Soluble in distilled/ purified water, insoluble in alcohol and ether.

Clarity

1% w/v aqueous solution is clear without any haziness and free from visible foreign/black particles after autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Reaction

Reaction of 2% w/v aqueous solution at 25°C.

pH

6.00- 7.00

Microbial Load:

Total aerobic microbial count (cfu/gm)

By plate method when incubated at 30-35°C for not less than 3 days.

Bacterial Count : <= 2000 CFU/gram

Total Yeast and mould count (cfu/gm)

By plate method when incubated at 20-25°C for not less than 5 days.

Yeast & mould Count : <= 100 CFU/gram

Test for Pathogens

1. *Escherichia coli*-Negative in 10 gms of sample 2. *Salmonella* species-Negative in 10 gms of sample 3. *Pseudomonas aeruginosa*-Negative in 10 gms of sample 4. *Staphylococcus aureus*- Negative in 10 gms of sample 5. *Candida albicans*- Negative in 10 gms of sample 6. *Clostridia*- Negative in 10 gms of sample

Indole Test

Tryptophan content: Passes

Cultural Response

Cultural response observed after an incubation at 35-37°C for 18-24 hours by preparing BHI Agar (M211) using HI Certified as an ingredient.

Cultural Response

Organism	Growth
Cultural Response	
<i>Candida albicans</i> ATCC 26790	Luxuriant
<i>Escherichia coli</i> ATCC 25922	Luxuriant
<i>Shigella flexneri</i> ATCC 12022	Luxuriant
<i>Staphylococcus aureus</i> ATCC 25923	Luxuriant
<i>Streptococcus pneumoniae</i> ATCC 6303	Luxuriant

Chemical Analysis

Total Nitrogen	$\geq 10.0\%$
Amino Nitrogen	$\geq 3.80\%$
Sodium chloride	$\leq 5.0\%$
Loss on drying	$\leq 5.0\%$
Residue on ignition	$\leq 12\%$

Storage and Shelf Life

Store between 10- 30°C in tightly closed container and away from bright light. Use before expiry date on label. On opening, product should be properly stored in dry ventilated area protected from extremes of temperature and sources of ignition. Seal the container tightly after use.

**Disclaimer :**

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